English

A-BUS

Model A-H4D

In-Wall, 4-Zone Hub for A-BUS System

Instruction Manual

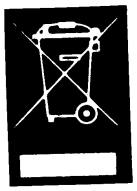
A-BUS SYSTEM OVERVIEW

The product you have just purchased is an integral part of the Russound A-BUS Multi-Room Audio System. It is a component which, when combined with other essential components and your source equipment (receiver, CD player, etc.), creates a versatile whole-house audio system that will fill your rooms with high-quality sound for years to come.

A-BUS technology is a new, innovative method of providing high quality audio to remote locations with a single 8-conductor cable such as CAT-5. A-BUS technology provides many advantages over other methods of audio distribution, including: simple, single CAT-5 wiring scheme; infrared control of system components; infrared control of the optional A-KP2 amplified keypad module; and system power status.

Every A-BUS System is comprised of components from each of the following three areas.

1. **A-BUS Amplified Modules**: The Module contains both the amplifier for the room's speakers as well as the control for those speakers. One Module should be used for each room you choose to control. The Russound A-KP2 Amplified Keypad (with built-in IR receiver) and A-VC2 Amplified Volume Control are examples of A-BUS Amplified Modules.
2. **A-BUS Hubs**: All components of the A-BUS system must be wired centrally to a Hub located near your source equipment. The Hub provides the connection for source equipment, volume controls, infrared emitters and power supply. The A-H484, A-H4, A-H4D, and A-H2 are examples of A-BUS Hubs. The A-H484, A-H4, and A-H2 are surface-mount units. The A-H4D is an in-wall Decora© style unit.
3. **Power Supply**: The power supply plugs into the Hub. The Russound A-PS 24VDC/4A unit is an example.



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the right connection

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A-H4D OVERVIEW

The A-H4D is an A-BUS in-wall, 4-zone, 1-source Audio Distribution Hub used with A-BUS Amplified Modules. The A-H4D can accomodate 4 additional Amplified Modules when used with the A-H4Dx Expansion Hub, which plugs into the side of the A-H4D.

IMPORTANT – Before installation, review the manuals included with each component in your system. If you are unsure of any of the installation procedures described herein or elsewhere, consult a professional electronics installer.

A-H4D KEY FEATURES

1) 1 source audio input and loop output
2) 4 common IR outputs
3) Status power input with selector jumper (on rear)
4) Power input
5) Link In and Out
6) Plug-in connection for A-H4Dx Expansion Hub
6) Decora® faceplate (2-gang)
7) Front-panel connections for Audio, IR Emitters, Power, and Status

A-H4D SPECIFICATIONS

Power Supply:	A-PS. 24VDC/4A.
Status Power:	12VDC/100mA.
Keypad Connection:	CAT-5, 110 Punchdowns
Link Connection:	CAT-5, 110 Punchdowns
Expansion Connection:	8-pin female connector
Emitter Connections:	1/8" Male. Tip (+), sleeve (-)
Dimensions:	3.54"W x 2.91"H x 1.456"D (90x74x37mm)
Weight:	8 oz. (226g)

LIMITED WARRANTY

The Russound A-H4D is fully guaranteed for Two (2) years from the date of purchase against all defects in materials and workmanship. During this period Russound will replace any defective parts and correct any defect in workmanship without charge for either parts or labor. For this warranty to apply, the unit must be installed and used according to its written instructions. If service is necessary, it must be performed by Russound. The unit must be returned to Russound at the owner's expense and with prior written permission. Accidental damage and shipping damage are not considered defects under the terms of the warranty. Russound assumes no responsibility for defects resulting from abuse or servicing performed by an agency or person not specifically authorized in writing by Russound. Damage to or destruction of components due to improper use voids the warranty. In these cases the repair will be made at the owner's expense. To return for repairs, the unit must be shipped to Russound at the owner's expense, along with a note explaining the nature of the service required. Be sure to pack in a corrugated container with at least 3 inches of resilient material to protect the unit from damage in transit.

INSTRUCTIONS FOR CONNECTING AND USING RUSSOUND MODEL A-H4D. REFER TO THE DIAGRAMS INSIDE.

1 AMPLIFIED MODULES

Connect four (4) A-BUS Amplified Modules to the A-H4D Hub using CAT-5 cables. Both the Hub and the Amplified Modules use 110 punchdwon connectors for the 8 individual conductors of the CAT-5 cable (use a punchdown tool with a 110 blade to insert the conductors).

2 IR EMITTERS

Common IR Outputs. Connect an IR emitter such as the 845.1 to each of the 4 IR connectors on the front of the A-H4D (you need use only one IR emitter if you've connected a single source directly to the A-H4D). The IR signal that is received through a zone's Amplified Module is routed to the A-H4D's Common IR outputs. This allows remote operation of sources such as CD, DVD or DSS from each zone.

3 STATUS

The status feature provides two functions:
- Visually confirms when the source component is on
- When the source component is turned off, all Amplified Modules will also turn off

The status feature requires that the source component has a switched AC outlet.

To enable the status feature:
- Move the status jumper on all Amplified Modules to the "Enabled" position.
- Move the jumper on the A-H4D to the "2-3" position.
- Using a Russound Model 846C 120V/12VDC or comparable adapter, connect the coaxial plug end to the STATUS input on the Hub, and plug the adapter into a switched AC outlet on the source component.

When the source is on and supplying status voltage to the Hub, the Amplified Module's LED indicator will illuminate green. When the source is turned off, all Amplified Modules that are on will also turn off (the A-VC2 will mute).

IMPORTANT: When the status feature is enabled, it must be used (i.e., supplied with power) in order to ensure proper operation with accessories such as the A-LC2 Local Source Input Module.

4 A-H4Dx EXPANSION HUB

The A-H4Dx is an Expansion Hub for the A-H4D that provides connectons for 4 additional Amplified Modules. It plugs into the side of the A-H4D. Multiple A-H4Dx Hubs can be added. Each A-H4Dx requires its own A-PS power supply.

5 SOURCE

Although the A-H4D has only 1 audio input, it can be connected to multiple audio sources via the Tape 2 or Zone 2 output of a stereo or home theater receiver. Connecting to a receiver gives the A-H4D access to any audio source connected to that receiver. If a single audio source is connected directly, it can be shared with the receiver by using the Audio Out on the A-H4D.

6 POWER SUPPLY

The A-H4D Hub and Amplified Modules are powered by the A-PS 24VDC/4A power supply. The A-PS should be plugged into an unswitched AC outlet (one that is live all the time).

7 OPERATION

A-KP2 keypads can be operated manually or by using the optional A-KP RC remote control. A-VC2 volume controls are operated manually using the rotary knob. If you installed IR emitters (see Step 2), then sources can be operated with their own remote control by aiming it at the IR window on an A-KP2 keypad.

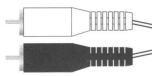
8 MOUNTING

Install the A-H4D near your receiver and source components. Check all connections and test the system's operation before installing the A-H4D into the wall. Using the included hardware, install the A-H4D into a standard UL/CSA approved electrical J-Box as shown.

CONNECTION DIAGRAMS FOR RUSSOUND MODEL A-H4D. REFER TO THE INSTRUCTIONS ON BACK. *DIAGRAMS ARE NOT TO SCALE.*

Standard method: Connect multiple sources via Tape 2 or Zone 2 output of Receiver

Audio Receiver



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Alternate method: Connect source directly to A-H4D and loop it back to the Receiver

Source Component

Audio Receiver

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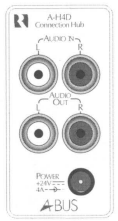
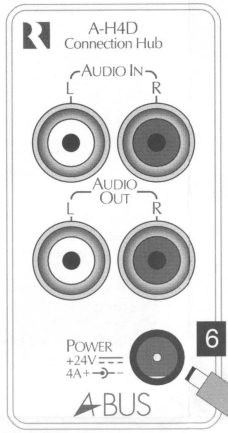


A-H4D FRONT



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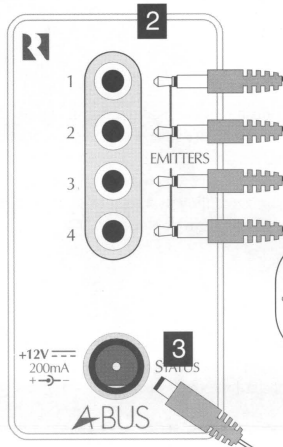

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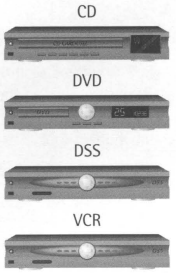
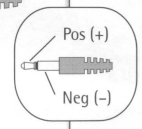
Emitter attaches to each source component's IR window

2





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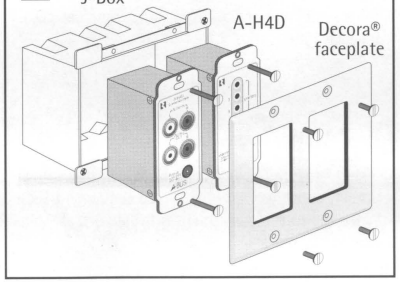

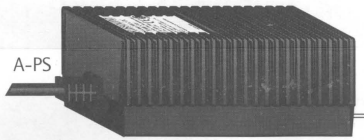

A-PS

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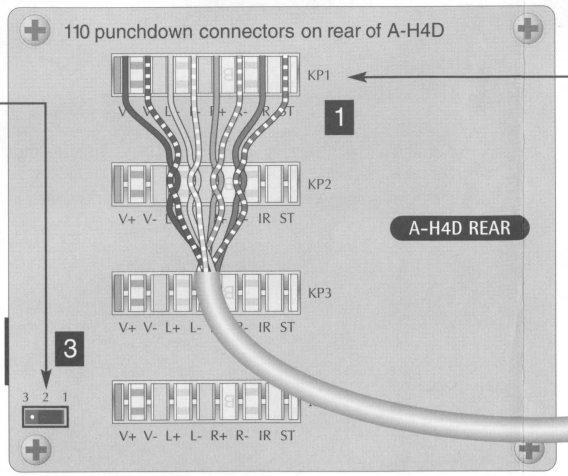
to switched AC outlet

3

846C

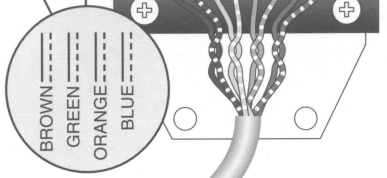
Audio Receiver

To use Status feature: Move to "2-3" position and enable status on ALL Amplified Modules



110 punchdown connectors on Amplified Module

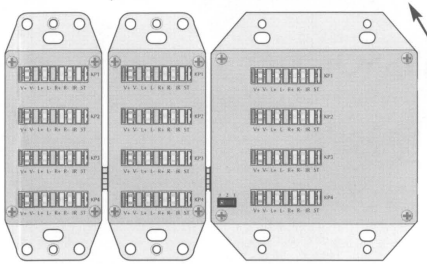
1



Wire order

CAT-5 (behind wall)

A-H4Dx Expansion Modules connected to A-H4D



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Connector for A-H4Dx

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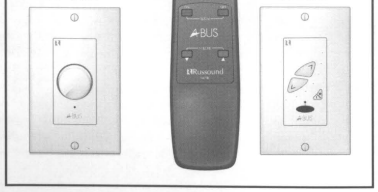
A-KP RC (optional)

A-VC2

A-KP2



CONNECTION INSTRUCTIONS FOR A-LC3. REFER TO NUMBERED DIAGRAM ON REVERSE.

1 RJ45 Connector for CAT-5 (Hub/Controller)

The RJ45 "Hub" input provides a connection for the CAT-5 cable from an A-BUS hub/controller. Use the T568A wiring standard. The recommended maximum length for standard CAT-5 cable is 150 feet. Before connecting the A-LC3, disconnect the power supply from the A-BUS hub/controller and disconnect the Status power supply if used.

2 RJ45 Connector for CAT-5 (Keypad)

The RJ45 "Keypad" input provides a connection for the CAT-5 cable to the amplified keypad. Use the T568A wiring standard. The recommended maximum length for standard CAT-5 cable is 150 feet. Before connecting the A-LC3, disconnect the power supply from the A-BUS hub/controller and disconnect the Status power supply if used.

3 Adjustment for Switching Sensitivity

The rotary trim potentiometer provides adjustment of source switching sensitivity. This adjustment determines the level of signal that must be present before the A-LC3 will switch from the main source to the local source. Fully counter-clockwise is the lowest level; turn the trim screw clockwise until switching occurs.

4 Adjustment for Switching Delay

The rotary trim potentiometer provides adjustment of source switching delay. This adjustment determines the time it takes to return to the main source after the local source signal is no longer detected. Fully counter-clockwise is the lowest level; turn the trim screw clockwise until switching occurs.

5 Sensitivity and Switching Delay LED

The green LED indicator next to the sensitivity adjustment control helps the installer set the levels during installation.

When the A-LC3 is powered by the hub/controller (through RJ45 connection), the LED flashes three times to confirm hub connection. This takes 1.5 seconds, during which time the local source will not be looking for external audio. After this period, normal operation is initiated, and if any external audio is sensed it will be routed to keypads. This short power-up delay also allows A-K5L keypads to properly boot up. It is important not to send any codes to it before it is fully on-line, as the system could go out of sync.

The LED turns on when the A-LC3 switches to the local source input. Use the sensitivity adjustment with local source audio present until the LED is just above steady ON, then turn the sensitivity adjustment and additional 1/8th turn.

6 Line Level Input for Local Source

The Line Input with autosensing gold-plated stereo RCA jacks provides a stereo line-level audio input for a local source with an RCA cable connection.

7 IR Output Jack for Local Source

The 3.5mm mono IR output jack is used to connect a Russound IR emitter to a local source and transmit commands from the A-BUS keypad to the local source if remotely located (such as a closet or cabinet). When the local source input is active, all IR codes sent through the keypad will be routed to the IR emitter output on the A-LC3 (these commands will also be sent to the IR output of the last source selected by that keypad and to the Common IR output on the hub/controller, not routed only to the A-LC3).

8 Installation

Check all connections and test the system's operation before installing the A-LC3 into the wall. Using the included hardware, install the A-LC3 into a standard UL/CSA single-gang electrical J-box.

9 Auto ON/OFF with A-K5L

The A-LC3 allows a local source to play through that room's speakers, instead of what's playing on the main source, and its volume is controlled using that room's amplified keypad.

When the local source is activated, the A-LC3 automatically turns ON (if it is OFF) the A-K5L keypad in the zone. If the keypad is on, when the local source becomes active it overrides the main source audio in that room, and when inactive, returns the room to the main source audio.

When the A-LC3 is active with the A-K5L keypad, the local source will turn the keypad ON to a preprogrammed volume. This value (LsVol) is set in the A-K5L programming menu.

The A-K5L LCD screen displays "Ls On" to indicate the local source has turned the zone on. If the keypad is turned off but the local source input is still active, the keypad returns to the "Ls On" state.

When the A-LC3 loses the signal (no audio present on the line level inputs), the A-LC3 turns off the A-K5L. The zone status LED remains lit until the A-K5L is power cycled.

CE FC Conforms to UL 6500 Certified to CAN/CSA

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Safety Instructions

1. Read Instructions - All the safety and operating instructions should be read before the appliance is operated.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the appliance in the operating instructions should be adhered to.
4. Follow Instructions - All operating and user instructions should be followed.
5. Water and Moisture - The appliance should not be used near water; for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.
6. Wall or Ceiling Mounting - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
7. Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
8. Power Sources - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
9. Grounding or Polarization - Precaution should be taken so that the grounding or polarization means of an appliance is not defeated.
10. Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through the openings.
11. Damage Requiring Service - The appliance should be serviced by qualified service personnel when:
    The power supply cord or the plug has been damaged;
    Objects have fallen, liquid has been spilled into the appliance
    The appliance has been exposed to rain
    The appliance does not appear to operate normally
    The appliance has been dropped or enclosure is damaged.
12. Servicing - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.
13. Care – From time to time you should wipe off the front panel with a soft dry cloth.

Limited Warranty

The Russound A-LC3 is fully guaranteed for two (2) years from the date of purchase against all defects in materials and workmanship. During this period Russound will replace any defective parts and correct any defect in workmanship without charge for either parts or labor. For this warranty to apply, the unit must be installed and used according to its written instructions. If service is necessary, it must be performed by Russound. Russound assumes no responsibility for defects resulting from abuse or servicing performed by an agency or person not specifically authorized in writing by Russound. Damage to or destruction of components due to improper use voids the warranty. In these cases the repair will be made at the owner's expense. Accidental damage and shipping damage are not considered defects under the terms of the warranty. To return for repairs, the unit must be shipped to Russound at the owner's expense, along with a Return Authorization number and documentation explaining the nature of the service required. Any product returned without prior written permission will be returned to sender. Russound sells products only through authorized Dealers and Distributors to ensure that customers obtain proper support and service. Any Russound product purchased from an unauthorized dealer or other source, including retailers, mail order sellers and online sellers will not be honored or serviced under existing Russound warranty policy. Any sale of products by an unauthorized source or other manner not authorized by Russound shall void the warranty on the applicable product.

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28-1272 Rev. 1 04/01/08

Russound

A-LC3

Local Input Module for A-BUS® System

Installation Manual

A-LC3 Overview

The Russound A-LC3 is an in-wall local source input module used with A-BUS® hubs and controllers in a distributed audio system. An A-LC3 in a room lets a local source or portable audio component be heard over the room's speakers independently from other rooms in the A-BUS system.

The A-LC3 connects between the A-BUS hub/controller and an A-BUS amplified keypad via CAT-5 cable. The A-LC3 automatically selects between an independent local source (e.g., portable CD player) and the source of an A-BUS system. It can be used with both single- and multi-source A-BUS hubs/controllers.

A-LC3 Features

- Auto turn ON of zone when used with A-K5L keypad
- IR emitter output for IR control of local source
- Stereo audio input
- Automatic switching between local and main source
- Switching sensitivity adjustment
- Switching delay adjustment

A-LC3 Specifications

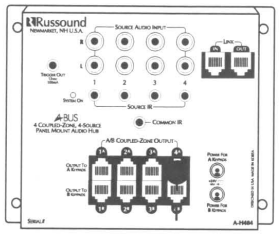
Input Sensitivity:	1 Vrms
Power Requirements:	+24VDC, 20mA
Switching Delay:	3 to 60 seconds
CAT-5 Connections:	RJ45 connector
IR Emitter Connection:	3.5mm mono IR output jack
Dimensions (in-wall):	1.75"W x 2.875"H x 1.75"D (45x73x45mm)
Weight:	3.5 oz. (100g)

A-BUS®

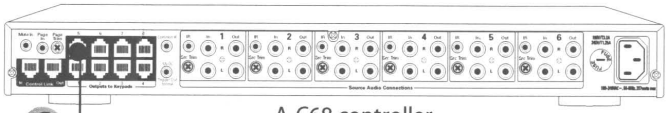
A-BUS is a registered trademark of LeisureTech Electronics Pty Ltd Australia

This product may be covered by one or more of the following patents: US #7,181,023, #6,389,139; EP #1004222, AU #739808, NZ #502982, Mexico #241196, Canada #CA2301062

CONNECTION DIAGRAM FOR A-LC3. REFER TO THE NUMBERED INSTRUCTIONS ON REVERSE. DIAGRAMS ARE NOT TO SCALE.

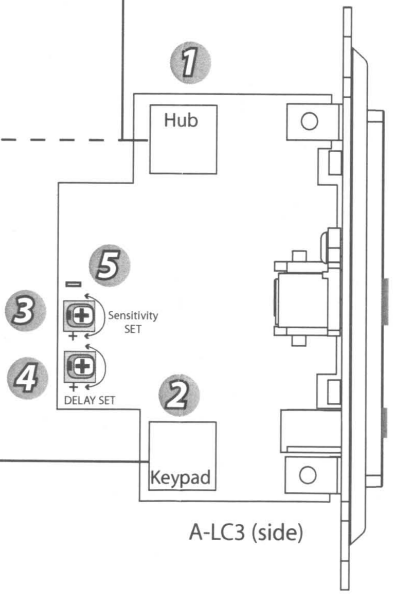


A-H484 - alternate hub choice

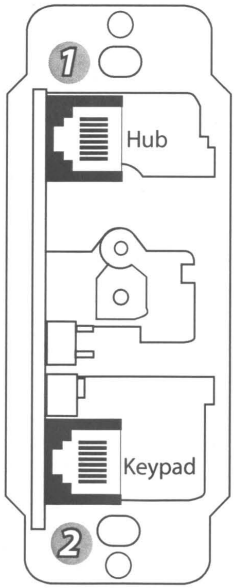


CAT-5 cable

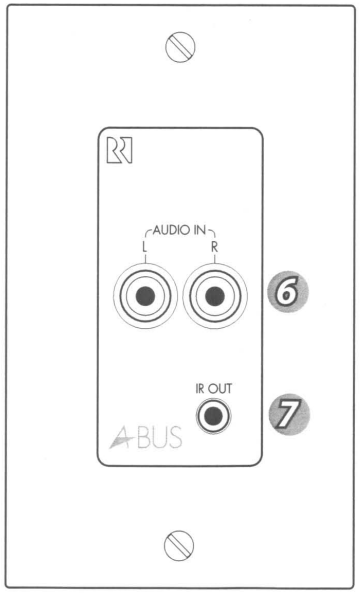
A-C68 controller



A-LC3 (side)

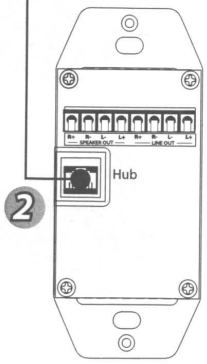


A-LC3 (back)

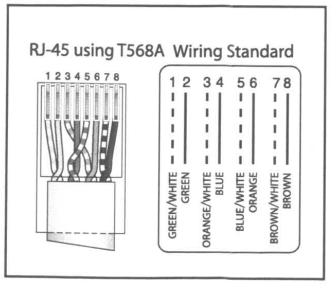


A-LC3 (front)

CAT-5 cable

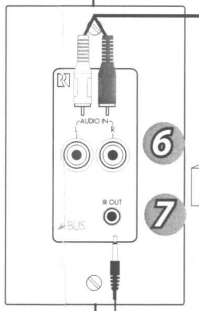


A-K5L (back)



CAT-5 cable

A-C68 controller



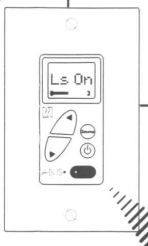
RCA cables

Local source - Satellite receiver

IR emitter

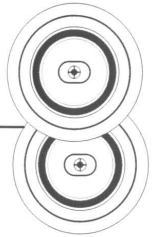
Max CAT-5 length of 150 feet

CAT-5 cable

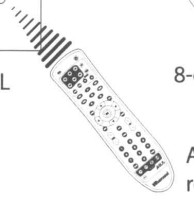


A-K5L

Speaker cable



8-ohm speakers

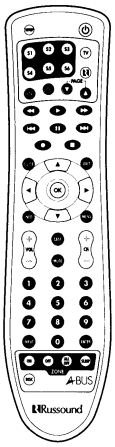


A-LRC2 remote control

Russound®

A-LRC2

A-BUS® LEARNING & PRE-PROGRAMMED REMOTE CONTROL USER GUIDE



INTRODUCTION

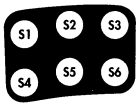
The A-LRC2 Remote Control is designed for use with Russound A-BUS® products. It is designed to operate source devices and the audio system keypad. The A-LRC2 controls up to seven devices: six A-BUS sources and one local source. For best results, please read and follow all the remaining instructions and keep this guide for future reference.

FEATURES AND FUNCTIONS

Note: S1 - S6, Vol +/-, Mute and Power are system commands and are the same for any source. All other buttons are dependent upon the device code associated with the source and may vary from device to device.

The following Key Charts provide a general description of button functions.

Key Charts



Select an A-BUS device. issues an S# command and changes the mode of the remote to control the source.

Turn the selected source on or off. Has talkback LED for programming and confirmation.

SETUP — Search for codes, add codes to A-LRC2.

CH — Select next/previous.
Select the next/previous chapter on some models of DVD players.
Press LAST to recall the last-viewed channel.

VOL — Raise or lower the sound level.
Press MUTE to turn the sound off or on.

Move the cursor in the menu screens.

TV — Local Source control

ON OFF — A-BUS "on" and "off" commands.

ALL OFF — A-BUS "All off" command

SLEEP — A-BUS "sleep" command

DISC — Input for track, channel, etc.

OK — Press OK to choose the high-lighted menu option. Performs "Enter" function for devices.

ENTER — Press Enter to choose the high-lighted menu option. Performs "OK" function for devices.

Skip backward, rewind, fast forward, skip forward, stop pause, or play tracks on disc.

PAGE — Use Page Up/Down with cable or satellite boxes. Note: May have to learn in these functions.

CCTV CCTV2 — Issues CCTV1 or CCTV2 command.

INFO — View the current channel and program information.

MENU — Display the menu for the selected device.

EXIT — Exit the selected device's menu, guide, or program without making a menu selection.

GUIDE — Display the program guide for the selected device.

INPUT — Change inputs on selected device.

LAST — Press LAST once to recall the last channel and to page back one screen in the main menu.

MUTE — Third-party command. Note: may have to learn in this function

1 2 3 4 5 6 7 8 9 0 — Directly enter channels (e.g., 09 or 31). Press OK to send channel number entries on some TV models.

INSTALLING BATTERIES

1. On the back of the A-LRC2, push the tab and lift off the battery cover.
2. Obtain two (2) fully-charged AA alkaline batteries. Match the + and – marks on the batteries to the + and – marks in the battery case, then insert the new batteries.
3. Press the battery cover back into place. The tab should click when the cover is locked.
4. Test the unit by pressing Power and any mode key. If the batteries are inserted correctly, the LED will blink once.

PROGRAMMING A DEVICE

Note: S1 - S6, Vol +/-, Mute and Power are system commands and are the same for any source. All other buttons are dependent upon the device code associated with the source.

Before proceeding, find the codes for the devices you want to program in, under "Manufacturer's Codes" in this manual. To control Universal TV, VCR or DVD, Cable or Satellite Receivers, Amplifier or Tuner, and Auxiliary devices, follow these steps.

1. Turn on the device (e.g., DVD player) and if needed, load media.
2. Press a device key (S1 - S6).
3. Press and hold SETUP until the red LED blinks twice, then release.
4. Enter the first five-digit code for your device.The LED blinks once as each digit is entered. If the code is valid, the LED blinks twice.

Note: If the LED does not blink twice, repeat steps 2 to 4 and try entering the code again.

5. Aim the remote at the device and press a function button. The device should in turn perform the requested function. If it does not, repeat steps 3-5, trying each code for your brand until you find a code that works. If you cannot find a code that works see "Searching for Your Code" in this manual.
6. Repeat steps 1-5 for the other devices you want to control. For future reference, write down each working device code.

SEARCHING FOR YOUR CODE

Note: S1 - S6, Vol +/-, Mute and Power are the same for any source. All other buttons are dependent upon the device code associated with the source.

If your device does not respond to the remote after trying all codes listed for your brand, or if your brand is not listed, try searching for your code:

1. Press a device key once.
2. Press and hold SETUP until the red LED blinks twice, then release.
3. Enter 9-9-1, then the device group number (see below). The LED blinks twice.
   - 0 Cable (Cable Converters, Video Accessories, Satellite Receivers)
   - 1 TV (TVs)
   - 2 VCR (VCRs, DVD players)
   - 3 Audio (Audio Amplifiers, Audio Amp/Tuners, CD players
4. Aim the remote at the device and press POWER. The remote sends IR codes from its library to the selected device, starting with the most popular code first. If the device responds, go to step 6.
5. If the device does not respond, press CH+. the remote will try the next code. Continue until the device responds. Press CH- to try the previous code.
6. Press SETUP to lock in code. To search for other device codes, repeat steps 1-5.

CHECKING THE CODES

If you have set up the remote using the procedure in "Searching for Your Code," you may need to find out which five-digit code is operating your equipment. For example, to find out which code is assigned to your TV:

1. Press the S# key to which the TV is assigned.
2. Press and hold SETUP until the red LED blinks twice, then release.
3. Enter 9 9 0. The LED blinks twice.
4. To view the code's first digit, press 1. Count the LED blinks (e.g., three blinks =3), and enter the number in the appropriate device list in step 6 of "Programming a Device." If a code digit is 0, the LED does not blink.
5. Repeat step 4 for the remaining digits, using 2 for the second digit, and so on.
6. To check for other device codes, repeat steps 1-5, using the appropriate S# key.

USING LEARNING

The A-LRC2 includes a Learning feature so you can add functions that are unique to your home entertainment devices (e.g., VCR Tracking Up or Down). The following precautions apply.

- The original remote controls must be in working order for learning to work properly.
- Learned keys are mode specific, so each one can store a unique function for each mode.
- Do not use the following keys for learning: Device Keys, SETUP, BACK, or Record.
- Learning capacity is approximately 40 to 100 keys, depending on the code being learned.
- Certain device codes are not learnable including multi-frequency types, some high frequency ones, and other unusual formats.
- For optimum learning, avoid high levels of ambient light such as natural sunlight or energy-efficient fluorescent lights.
- Have the original remote controls handy before programming learning.

Programming a learned key

Note: If more than 15 seconds pass between key presses, the remote exits programming.

1. Press and hold SETUP until LED flashes twice.
2. Press 9 7 5.
3. Press a device key once (e.g., S1 - S6) to assign a mode for learning.
4. Place the A-LRC2 head-to-head (about 2" apart) from your original remote control. Also locate the key (on original remote control) that will serve as the teaching function.
5. On the A-LRC2, press a key where the learned function will be stored.
6. On the original remote, press and hold the the key to be learned. The A-LRC2 LED will turn off.Continue holding the key on the original remote until the A-LRC2 LED blinks twice.

Note: If the LED displays one long blink, a learning error has occurred. Try repeating this step again until a successful capture occurs. If the function is still not captured, press and hold SETUP to exit programming. Review the learning precautions listed above, or the Troubleshooting tips below, before beginning again at step 1.

7. To program another key for the same source, repeat steps 5-6. To program another device, repeat steps 1-6. Press and hold SETUP to exit programming.

Deleting a single learning key

1. Select a source.
2. Press and hold SETUP until the LED flashed twice.

NOTE: If more than 15 seconds passes between key presses, the remote exits programming.

3. Press 9 7 6.
4. Press the key (twice) containing the learned function to be deleted. The remote blinks twice.
5. Repeat steps 2-4 for another key on the same source, or press and hold SETUP to exit programming.

Deleting all learned keys in a specific mode

1. Press and hold SETUP until the LED blinks twice.

Note: if more than 15 seconds pass between key presses, the remote exits programming.

2. Press 9 7 6.
3. Press a device key twice (S1 - S6) to delete all the learned keys for that mode. The LED blinks twice.
4. Repeat steps 1-3 for another set of keys for a device, or press and hold SETUP to exit programming

TROUBLESHOOTING

Problem: Remote does not control devices or commands are not working properly.

Solution: Try all listed codes for the device. make sure the device operates with an infrared remote control.

ADDITIONAL INFORMATION

The A-LRC2 does not have any user-serviceable parts. Opening the case, except for the battery cover, may cause permanent damage to the A-LRC2.

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28-1256 **03/27/07**

MANUFACTURER'S CODES

Setup Codes for Audio Amplifiers

Accuphase	30382
Acurus	30765
Adcom	31100, 30577
Aiwa	30406
AudioSource	30011
Bel Canto Design	31583
Bose	30674
Carver	30269
Classe	31461, 31462
Curtis Mathes	30300
Denon	30160
Durabrand	31561
GE	30078
Harman/Kardon	30892
JVC	30331
Kenwood	30356
Korsun	31483
Left Coast	30892
Lenoxx	31561
Linn	30269
Logitech	31408
Luxman	30165
Magnavox	30269
Marantz	30892, 30321, 30269
Mark Levinson	31483
Nakamichi	30321
NEC	30264
Optimus	30395, 30300
Panasonic	30521, 30308
Parasound	30246
Philips	30892, 30269
Pioneer	30013, 30300
Polk Audio	30892, 30269
PS Audio	31523
RCA	30300
Realistic	30395
Sansui	30321
Shure	30264
Sony	30689, 30220, 30815
Soundesign	30078, 30211
Technics	30521, 30308
Victor	30331

Wards	30078, 30211, 30013
Yamaha	30354, 30143, 30133, 30504
YBA	31502

Setup Codes for Audio Amp/Tuners

ADC	30531
Adcom	31616, 30616, 31617
Aiwa	31405, 30158, 30189, 31243, 31089, 31388, 30121, 30405, 31321, 31641, 31347
Akai	30224, 30076, 31512, 31255
Alco	31390
Amphion Media Works	31615, 31563
AMW	31563, 31615
Anam	31609, 31074, 30281
Apex Digital	31430, 31257
Arcam	31120
Audiophase	31387
Audiotronic	31189
Audiovox	31390, 31627
AVLight	30158
Bel Canto Design	31584
Bose	31229, 31253, 30639
Brix	31602
Cambridge Soundworks	31477, 31370
Capetronic	30531
Carver	31189, 30189, 30042, 31089, 30008, 30360
Casio	30195
Clarinette	30195
Classic	31352
Coby	31513, 31389, 31263
Compaq	31136
Criterion	31420
Curtis	31596
Curtis Mathes	30080
Daewoo	31250
Dell	31383
Denon	31360, 30004, 31104, 30771, 31311, 30273, 31142, 30301
Dynamic Bass	30360
Emerson	30424, 30255
Fisher	31409, 30360, 30219, 31801, 30042
Fonmix	31360
Fosgate	31487
Garrard	30424, 30281, 30463, 30146, 30440
Gateway	31517, 31567
GE	31379
Glory Horse	31263
Go Video	31532
GoldStar	30281
GPX	31299
Hafler	30146
Harman/Kardon	30110, 30189, 30891
Hewlett Packard	31181
Hitachi	31801, 31273
Initial	31426
Inkel	30027, 30062, 30502, 30491
Integra	30135, 31298
JBL	30110, 31306, 30281
JVC	30074, 31282, 31263, 31495, 31374
Kansai	30440
Kenwood	31313, 31570, 31569, 30027, 31051, 30077, 30313, 31027, 30042, 30239, 30569, 31052, 30186, 30314
KLH	31412, 31390, 31428
Koss	30424, 30255, 31366
Lasonic	31798, 31510
Lenoxx	31437
Lexicon	31076
Linn	30189
Liquid Video	31497
Lloyd's	30195
LXI	30181
Magnavox	31189, 31269, 30189, 30128, 30391, 30195, 31089, 31514, 30531
Marantz	31189, 31269, 30039, 30189, 31089, 31289, 30200, 30128
MCS	30039, 30346
Memorex	31596
Mitsubishi	31393
Modulaire	30195
Musicmagic	31089
NAD	30320
Nakamichi	30347, 30097, 31555
NEC	30235
Norcent	31389
Onkyo	30135, 31298, 30842, 30380, 31531
Optimus	31023, 30801, 31074, 30080, 30186, 30531, 30797, 30042, 30181, 30440, 30738, 30849, 30177, 30219, 30670
Oritron	31497, 31366
Panasonic	31518, 30039, 31548, 31764, 30518, 31350, 31763, 30367, 31316, 31509, 31633, 30309, 31288, 31363
Penney	30195
Philco	31390
Philips	31189, 31269, 30189, 31365, 31089, 31266, 31283, 30891, 31368, 30391, 31120, 31268
Pioneer	31023, 30150, 30630, 31184, 30080, 30531, 31084, 31384, 30244,31343
Polaroid	31508
Polk Audio	30189, 31289
Proscan	31254
Qisheng	31609, 31390
Quasar	30039
RadioShack	31263
RCA	31023, 31609, 31254, 30346, 30531, 31154, 31511, 30080, 30530, 31074, 31390, 30054, 30360
Realistic	30195, 30181, 30163
Regent	31437
Rio	31869, 31383
Saba	31519
Samsung	31500, 31295
Sansui	30189, 30346, 30193, 31089
Sanyo	30801, 30360, 31469, 30219, 31251
Scott	30163, 30322
Sharp	31286, 30186, 31386, 31361
Sharper Image	31545, 31556, 30797, 31409, 31416, 31549, 31385, 31411, 31546, 31723, 31263, 31410
Sherwood	30491, 31423, 30062, 31077, 30502, 31653
Shinco	31390
Shinsonic	31426
Silsonic	30176, 31426
Sonic	30281
Sonic Blue	31383, 31869, 31532
Sony	31058, 31441, 31258, 31759, 30158, 31442, 31529, 31758, 31371, 31503, 31042, 31658, 31158, 31858, 31367, 31406, 31458, 30168, 31558, 31131, 31349, 31382
Soundesign	30670
Stereophonics	31023
Sunfire	31313, 30314, 30313, 31052
Tae Kwang	30440
Teac	30163, 31267, 31074, 31528, 30463, 31390
Technics	31308, 31518, 30039, 30518, 30309, 31309, 30208
Techwood	30281
Thorens	31189
Venturer	31390, 30849
Victor	30074
Wards	30158, 30189, 30080, 30054
Yamaha	30176, 30081, 31176, 31375, 30186, 31331, 31276
Yorx	30195
Zenith	31293, 30857, 30281, 31869

Setup Codes for Cable Converters

ABC	00003, 00008, 00014, 00001, 00007, 00013, 00011, 00017
Allegro	00315, 00153
Americast	00899
Antronix	00207, 00022
Archer	00797, 00207, 00153, 00022
Belcor	00056
Bell & Howell	00014
Bell South	00899
Cable Star	00056
Cabletenna	00022
Cableview	00022
Century	00153
Citizen	00315, 00153
Clearmaster	00883
ClearMax	00883
Colour Voice	00025, 00031
Comtronics	00040
Contec	00019
Coolmax	00883
Daeryung	01877, 00877, 00477, 00008
Digi	00637
Director	00476
Dumont	00637
Eastern	00002
Emerson	00797
Everquest	00040, 00015
Focus	00400
Funai	00019
Garrard	00153
GC Electronics	00207, 00056
Gehua	00476
Gemini	00797, 00015
General Instrument	00476, 00810, 00276, 00003, 00014, 00011, 00015
Global	01327
GMI	00015, 00797
GoldStar	00144, 00040
Goodmind	00797
Hamlin	00009, 00273, 00034, 00020, 00259
Hitachi	00014, 00011
Hytex	00007
Jasco	00015, 00315, 00153
Jebsee	00400
Jerrold	00476, 00810, 00276, 00003, 00012, 00014, 00011, 00015
Leon	00015
LG	00144, 00040
Linsay	00440
Magnavox	00027
Memorex	00000
Motorola	00476, 00810, 00276, 01254, 01106, 01376
Movie Time	00156, 00063
MS	00015
MultiVision	00012
Novaplex	00618
NSC	00063, 00156
Oak	00019, 00007
Optimus	00021
Pace	01877, 00237
Panasonic	00000, 00008, 00107, 00040, 00021
Panther	00637
Paragon	00000
Philips	00317, 00027, 00025, 00153, 00013, 00031, 01305
Pioneer	01877, 00877, 00144, 00533, 01021
Popular Mechanics	00400
Pulsar	00000
Quasar	00000
RadioShack	00015, 00883, 00797, 00315
RCA	00021
Realistic	00207
Recoton	00400
Regal	00279, 00273, 00259, 00020
Regency	00002
Rembrandt	00011
Runco	00000
Samsung	00000, 00144, 00040
Scientific Atlanta	01877, 00877, 00477, 00008, 00017
Seam	00510
Signal	00040, 00015
Signature	00011
SL Marx	00040
Sony	01006
Sprucer	00021
Starcom	00003, 00014, 00015
Stargate	00015, 00797, 00040
Starquest	00015
Supercable	00276
Supermax	00883
Sylvania	00001
Tandy	00258
Teleview	00040
Texscan	00001
TFC	00310
Timeless	00040
Tocom	00012, 00013
Torx	00003
Toshiba	00000
Trans PX	00276, 00153, 00315
Tristar	00883
TS	00003
Tusa	00015
TV86	00063
Unika	00207, 00153, 00022
United Artists	00007
Universal	00153, 00056, 00207, 00022, 00191
V2	00883
Viewmaster	00883
Viewstar	00063, 00027, 00258
Vision	00883
Vortex View	00883
Zenith	00000, 00525, 00899
Zentek	00400

Setup Codes for CD Players

ADC	30018
Adcom	30155, 30234
Aiwa	30157, 30124, 30012
Akai	30156
Audio Alchemy	30194
Audio-Technica	30170
BSR	30245, 30194
Burmester	30420
California Audio Labs	30029, 30303
Carrera	30194
Carver	30157, 30437, 30179
Classic	31297
Crown	30122
DAK	30245
DBX	30254
Denon	30873, 30003
DKK	30000
DMX Electronics	30157
Dynamic Bass	30179
Emerson	30305, 30164, 30155, 30469
Fisher	30179, 30174, 31325, 30088, 30342
Garrard	30245, 30420, 30393, 30280, 30425
GE	30009
Gemini	30625
Genexxa	30032, 30305, 30164
GoldStar	30417
GPX	31296
Harman/Kardon	30157, 30173, 31202, 30426
Hitachi	30032, 30155
Inkel	30196, 30180, 30437
Integra	30101
JVC	30072, 31294, 30655
Kenwood	30681, 30826, 30626, 30028, 30037, 30036, 30190
KLH	31318
Kodak	30287
Korsun	31484
Koss	31317
Krell	30157
Kyocera	30018
LG	31208
Linn	30157
Luxman	30093
LXI	30305
Magnavox	30157, 30305
Marantz	30626, 30029, 30157, 30180
Mark Levinson	31484
McIntosh	30287
MCS	30029, 30043
Miro	30000
Mission	30157
MTC	30420, 30625
Nakamichi	30147
NEC	30043, 30234
Nikko	30174, 30170, 30164, 30625
NSM	30157
Onkyo	30868, 30101
Optimus	31063, 30000, 30032, 30037, 30342, 30437, 31075, 30145, 30194, 30305, 30426, 30087, 30179, 30280, 30420, 30468, 30175, 30196
Panasonic	30029, 30752, 30303
Parasound	30420, 30194
Philips	30626, 30157, 30287
Pioneer	31063, 31062, 30032, 30305, 30468, 31087
Polk Audio	30157
Proton	30157
QED	30157
Quad	30157
Quasar	30029
RadioShack	31075
RCA	31062, 30032, 30305, 30764, 30179, 30468, 30009, 30155, 30420, 30053
Realistic	30164, 30180, 30155, 30179, 30175, 30420
Rotel	30157, 30420
SAE	30157
Sansui	30157, 30305, 30202
Sanyo	30179, 30087
SAST	30157
Scott	30305, 30164, 30155
Sears	30305
Sharp	30861, 30037, 30180
Sherwood	31067, 30196, 30180, 30426
Shure	30043
Silsonic	30888, 30036
Sonic Frontiers	30157
Sony	30490, 30000, 31364, 30185, 30605, 30100, 30604
Soundesign	30425, 30145
STS	30018
Symphonic	30305
TAG McLaren	30157
Tascam	30420
TDK	31208
Teac	30393, 30180, 30174, 30420
Technics	30029, 30207, 30303
Tivoli Audio	31553
Vector Research	30194, 30417
Victor	30072
Wards	30157, 30053
Yamaha	30888, 30036, 30187, 30170, 31292
YBA	30625
Yorx	30461
Zonda	30157

Setup Codes for DVD Players

Adcom	21094
Advent	21016
Aiwa	20641, 21912
Akai	20899, 20770, 21975, 21089
Allegro	20869
Amphion Media Works	22016, 22001
AMW	20872, 22016, 22001, 21176
Anam	21913
Apex Digital	20672, 20717, 20797, 21020, 21100, 20796, 21004, 21061, 21937, 20794, 20830, 21056, 21915, 20755
Aspire Digital	21168
Audiologic	20736
Audiovox	21071, 21122, 21041, 21121, 21072
Axion	21071, 21072
B & K	20662, 20655
Bel Canto Design	21571
Blaupunkt	20717
Blue Parade	20571
Broksonic	20868, 20695
Cambridge Soundworks	21916
CAVS	21057
Changhong	20627, 21061
CineVision	20876, 20869
Classic	21917
Coby	20778, 21107, 21086, 21923, 20852, 21165
Criterion	22007
Curtis Mathes	21087
CyberHome	21023, 21129, 20816, 21117, 21024
Daewoo	20784, 20869, 20833, 21918, 21172, 20705
Denon	20490, 20634
Dual	21085, 21068
DVD2000	20521
Emerson	20591, 20675, 20821
Enterprise	20591
Fisher	20670, 21919
Funai	20675
Gateway	21077, 21073, 21158
GE	20522, 20815, 20717

Go Video	20744, 20869, 21099, 21970, 20715, 20833, 21075, 21730, 20783, 21044, 21144
GPX	20699, 20769
Greenhill	20717
Harman/Kardon	20582, 20702
Hitachi	20573, 20664, 21919
Hiteker	20672
Initial	20717, 21931
Integra	20627, 21924
Jamo	22003
Jaton	21078
JBL	21926, 20702
Jensen	21016
JVC	20558, 20623, 21940, 21901, 20867
jWin	21051, 21049
Kenwood	20490, 20534, 21063, 20682
KLH	20717, 21939, 21149, 21020
Konka	20720, 20719, 20711, 20721
Koss	20651
Landel	20826
Lasonic	20798, 21173
Lenoxx	21938
LG	20801, 20101
Liquid Video	21980
Lite-On	21158, 21058
Loewe	20511
Magnavox	20503, 20675, 21976, 21914, 20821
Malata	21159, 20782
Marantz	20539
Memorex	20695
Microsoft	20522
Mintek	20839, 20717
Mitsubishi	21521, 20521
Momitsu	21082
NEC	20785
Nesa	20717
Next Base	20826
Niro	22024
Norcent	21003, 20872, 21923, 21107
Onkyo	20503, 20627, 21924, 20792, 21985
Oritron	20651, 21980
Panasonic	20490, 21462, 21907, 21910, 21990, 21362, 21762, 21909, 21986, 20632, 21490, 21908, 21925, 22017
Philco	22000
Philips	20503, 20539, 20646, 20885, 20854, 21914
Pioneer	20525, 20571, 20638, 20632, 20631, 21902
Polaroid	21086, 21061, 21998, 21200
Polk Audio	20539
Portland	20770
Prima	21016
Princeton	20674
Proscan	20522
ProVision	20778
Qwestar	20651
RCA	20522, 20571, 20717, 20822, 21193, 21974, 21132, 21965, 21022, 21913
Regent	21938
Rio	20869
Rotel	20623
Rowa	20823
Saba	21977
Sampo	20752, 20698
Samsung	20490, 20573, 20820, 21932, 21075, 20899, 21979
Sansui	20695
Sanyo	20695, 20670, 21967, 20873
Sharp	20630, 20752
Sharper Image	21995, 21117
Sherwood	21043, 20770, 20633, 21077
Shinco	20717
Shinsonic	20533, 20839, 21931
Sigma Designs	20674
Sonic Blue	20869, 21970, 21099
Sony	20533, 21533, 20864, 21033, 21904, 22020, 21903, 21981, 20772, 21934
Sungale	21074
Superscan	20821
SVA	20717, 20860, 21105
Sylvania	20821, 20675
Symphonic	20675
Teac	21984, 20809
Technics	20490
Technosonic	20730
Techwood	20692
Terapin	21031
Theta Digital	20571
Tivo	21996
Toshiba	20503, 21154, 22006, 21045, 21996, 20695, 21988
Tredex	20803, 20800, 20799, 20804
TYT	20705
Urban Concepts	20503
US Logic	20839
V Inc.	21226, 21064
Vocopro	21027
Xbox	20522
Xwave	21001
Yamaha	20490, 20539, 20545
Zenith	20503, 20591, 21906, 20869, 22002

Setup Codes for Satellite Receivers

AlphaStar	00772
Chaparral	00216
Crossdigital	01109
DirecTV	00392, 00566, 00639, 01639, 01142, 00247, 00749, 01749, 00724, 00819, 01856, 01076, 01109, 00099, 01444, 01108, 01392, 01443, 01640, 01442, 01414
Dish Network System	01005, 00775, 01775, 01505, 01170
Dishpro	01005, 00775, 01505, 01775
Echostar	01005, 00775, 01170, 01775, 01505
Expressvu	00775, 01775
Funai	00338
GE	00566
General Instrument	00869
GOI	00775, 01775
Goodmans	01246
Hisense	01535
Hitachi	00819, 01250, 00214, 00491, 00489, 00201
HTS	00775, 01775
Hughes Network Systems	01142, 00749, 01749, 01443, 01442, 01444
I-Lo	01535
JVC	00775, 01170, 00492, 01775
LG	01414, 01226
Magnavox	00724, 00722
Matsushita	00340, 00214, 00500
Memorex	00724
Mitsubishi	00749, 00491
Motorola	00869
NEC	00496, 01270
Next Level	00869
Panasonic	00247, 00701, 00214, 00500, 00340
Paysat	00724
Philips	01142, 00749, 01749, 00724, 01076, 00722, 00099, 01442
Proscan	00392, 00566
Proton	01535
RadioShack	00869
RCA	00392, 00566, 00855, 00143, 01392
Samsung	01276, 01109, 01108
Sanyo	00493, 01219
Sharp	00494
SKY	00856
Sony	00639, 01639, 00294, 01640, 00163
Star Choice	00869
Tivo	01142, 01444, 01443, 01442
Toshiba	00749, 01749, 00790, 00486, 01285
UltimateTV	01392, 01640
Uniden	00724, 00722
US Digital	01535
USDTV	01535
Victor	00492
Voom	00869
Zenith	00856, 01856

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888	10264
A-Mark	10003
Abex	10032
Addison	11150, 10653, 10092
Admiral	10093, 10463
Advent	10761, 10817, 10815, 11933, 10783, 10842
Adventura	10046
Aiko	10092
Aiwa	11914, 11910
Akai	10812, 10702, 10030, 10672, 11903, 10264
Alaron	10179
Albatron	10843, 10700
Ambassador	10177
America Action	10180
Ampro	10751
Anam	10250, 10180, 10003, 10700, 10161, 10628
Anam National	10250, 10161, 10055, 10650
Anhua	10051
AOC	10451, 10093, 10180, 10060, 10030, 10178, 10019, 10185, 11150, 10018, 10052, 10474, 10003, 10092, 10179
Aolinpike	10264
Apex Digital	10748, 10765, 10767, 11943, 10879
Archer	10003
Audiovox	10451, 10180, 10875, 11952, 10802, 11951, 10092, 10623, 11937, 10003
Axion	11937
Baihe	10264
Baile	10001, 10391
Baohuashi	10264
Baosheng	10817
Beijing	10812, 10391, 10264, 10817, 10001
Belcor	10019
Bell & Howell	10154, 10016
BenQ	11032
Bradford	10180
Brockwood	10019
Broksonic	10236, 10463, 11911, 11938, 10003, 11905, 11935, 11929
Caihong	10817
Cailing	10748
Candle	10030, 10046, 10186, 10056
Carnivale	10030
Carver	10054, 10170
Celebrity	10000
Celera	10765
Changcheng	10051, 10817, 10001, 10391, 10264
Changfei	10817
Changfeng	10817, 10264
Changhai	10817
Changhong	10156, 10765, 10817, 10264, 10783, 10767, 11910
Chengdu	10817
Ching Tai	10003, 10474, 10179, 10092
Chun Yun	10000, 10180, 10161, 10474, 11150, 10092, 10843, 10003, 10179, 10700
Chunfeng	10264
Chung Hsin	10180, 10053, 11150, 10036, 10474
Chunsun	10817
Cinema	10672
Citizen	10060, 10030, 10039, 10280, 10056, 10186, 10046, 10092, 11928
Clairtone	10185
Clarion	10180
Colt	11906
Concerto	10056
Conrowa	10156, 10145, 10264
Contec	10180, 10157, 10185
Craig	10180, 10161
Crosley	10054
Crown	10180, 10039
Curtis Mathes	10047, 10054, 10154, 10451, 10093, 10060, 10702, 10030, 10145, 10166, 10466, 11347, 10039, 10056, 11147, 10016, 11919
CXC	10180
Daewoo	10154, 10451, 10180, 10030, 10178, 11661, 10474, 10003, 10628, 10032, 11150, 10092, 11928, 10627, 10700, 10056, 11909, 10170, 10391, 10623, 10019, 10672, 10039
Daytron	10019
Dayu	10391
Dell	11080
Denon	10145, 10511
Dumont	10017, 10019
Durabrand	10463, 10180, 10178, 10171, 11034, 10003
Dwin	10774, 10720
ECE	10037
Electroband	10000, 10185
Electrohome	10381
Elektra	10017, 11661
Emerson	10154, 10236, 10463, 10180, 10178, 10171, 10280, 10623, 10038, 11911, 11944, 10179, 10019, 11909, 11929, 10185, 10282, 11905, 10039, 11928, 10177
Envision	10030, 10813
Epson	10833, 10840
Ether	10030, 10161, 10003
Feilu	10817
Feiyan	10264
Feiyue	10817
Firstar	10236
Fisher	10154, 10159
Fortress	10093
Fujitsu	10186, 10853, 10179, 10809, 10683
Funai	10180, 10171, 10264, 11904, 10179, 10342
Furi	10145, 10817, 10264
Futuretech	10180
Ganxin	10817
Gateway	11756, 11755
GE	11447, 10047, 11454, 10051, 10451, 10180, 10030, 10178, 10092, 11147, 11919, 10055, 10027, 11917, 10135, 10282, 11347, 10021, 11907, 11922
General	10186
Gibralter	10017, 10030, 10019
Gintai	11150, 10474
Go Video	10886
GoldStar	10154, 10030, 10178, 11926, 10019, 10037, 11910, 10001, 10032, 10056, 11150, 10039
Goodmans	10360
Grunpy	10180, 10179
Haier	11034, 10768
Haiyan	10264, 10817
Hallmark	10178
Hankook	10180, 10030, 10178, 10019, 10056, 10628
Harley Davidson	11904, 10179
Harman/Kardon	10054
Harvard	10180
Havermy	10093
Hello Kitty	10451
Himitsu	10180, 10628
Hisense	10156, 10748, 10145
Hitachi	11256, 10156, 10030, 10178, 11145, 10145, 10038, 11245, 10092, 10027, 10381, 10036, 11150, 10056, 11904, 10151, 10165, 10019, 10186, 10032, 10039, 10157, 10016, 10179, 10474
Hongmei	10093, 11910, 10817, 10264
Hongyan	10817, 10264
Hua Tun	11150
Huafa	10145
Huanghe	10817
Huangshan	10264, 10817
Huanyu	11910, 10817, 10264
Huaqiang	10264
Huari	10145, 10264
Huodateji	10051
Hyundai	10849
Imperial Crown	10001, 10391, 10264
Infinity	10054
Inteq	10017
Janeil	10046
JBL	10054
JCB	10000
Jean	10156, 10051, 10236, 10092, 10179, 10003, 10474
Jensen	10761, 10815, 11933, 10817
Jiahua	10051
Jialicai	10264
Jinfeng	10051, 10817
Jinhai	11910
Jinque	10817, 10264
Jinta	10264, 11910
Jinxing	10054, 10156, 10145, 10264, 10037, 10817
Juhua	10817, 10264
JVC	10053, 10160, 11923, 11253, 10036, 10653
Kaige	10264, 10817
Kangchong	11910
Kangli	10001, 10817, 10391, 10264
Kangyi	10264
Kaypani	10052
KEC	10180
Kenwood	10030, 10019
KLH	10765, 10767
KLL	10037
Kloss	10046, 10024
Kolin	10180, 10053, 11150, 10036, 10474
Kongque	10264, 10817
Konka	10632, 10707, 11940, 10628, 10703, 11939, 10638, 10817
KTV	10180, 10030, 10185, 10039, 10280
Kuaile	10264
Kunlun	10051, 10817, 10264
LG	10060, 10030, 10178, 10056, 10442, 10856, 10001, 10038, 10700, 10019, 10037, 10474, 11178, 10003, 10032, 10006
Lihua	10817
Lloyd's	11904
Loewe	10136
Logik	10016
Longjiang	10264, 10817
Luxman	10056
LXI	10047, 10054, 10154, 10156, 10178
Magnasonic	11928, 11913
Magnavox	11454, 10054, 10030, 10706, 11904, 10020, 11944, 10036, 10179, 10386, 11931, 10096, 10187, 11254, 11913, 10024, 10186
Magnin	11907
Majestic	10016
Marantz	10054, 10030, 10854, 10704, 11154, 10855
Maruman	10627, 10391
Matsushita	10250, 10650, 10161
Megapower	10700
Megatron	10178, 10145, 10003
MEI	10185
Meile	10264, 11910, 10817
Memorex	10154, 10463, 10150, 10178, 10179, 11920, 11927, 10016, 11911, 11926, 11924
Mermaid	10037
MGA	10150, 10030, 10178, 11907, 10019
Midland	10047, 10017, 10051, 10039, 10135, 10032
Minutz	10021
Mitsubishi	10154, 10250, 10093, 10236, 10180, 11250, 10150, 10030, 10178, 10381, 10836, 10036, 10179, 10817, 11150, 10474, 10019, 10868, 10056, 11917
Monivision	10843, 10700
Motorola	10093, 10055
MTC	10060, 10030, 10185, 10019, 10056
Mudan	10051, 10817, 10264
Multitech	10180
NAD	10156, 10178, 10866
Nanbao	11910, 10264
Nansheng	10817, 10264
National	10051
NEC	10154, 10156, 10051, 10053, 10030, 10178, 10046, 11150, 10056, 10165, 10186, 10474, 10036, 10882, 10381, 10817, 11704, 10170, 10264, 10019, 10497
Newave	10093, 10178, 11150, 10092, 10161
Nikko	10030, 10178, 10092
Nikon	11910
Norcent	10748, 10824
Noshi	10018
NTC	10092
Onking	10280
Onwa	10180
Optimus	10154, 10250, 10166, 11924, 11913, 10650, 11927
Optoma	10887
Optonica	10093, 10165
Orion	10236, 10463, 11911, 11905, 10179, 11463, 11929
Panasonic	10054, 10250, 10051, 10161, 11410, 11927, 11947, 10037, 10055, 10650, 11924, 11946, 11919, 11941
Panda	10051, 10706, 10817, 10264, 11910
Penney	10047, 10156, 10051, 10060, 10030, 10178, 10135, 11347, 11926, 10018, 10027, 10039, 11919, 10003, 10021, 10032, 11907, 10019
Philco	10054, 10180, 10030, 10178, 10628, 10474, 10020, 10037, 10096, 10186, 10774, 10019, 10032, 10056
Philips	11454, 10054, 10000, 10051, 10030, 10178, 10474, 10019, 11154, 10092, 10187, 10774, 10024, 10037, 10056, 10186, 10690, 10020, 10032

Pilot	10030, 10019, 10039
Pioneer	10166, 10038, 10866, 10679
Portland	10092, 10039, 10019
Prima	10761, 10815, 10783, 11933, 10817
Princeton	10717, 10700
Prism	10051
Proscan	11447, 10047, 11347, 11922
Proton	10030, 10178, 10001, 10039, 10466, 10003, 10052, 10474
Pulsar	10017, 10019
Qingdao	10051, 10817, 10264
Quasar	10250, 10051, 11924, 10165, 11919, 10055, 10650
RadioShack	10047, 10154, 10180, 10030, 10178, 10032, 10056, 11920, 10165, 11904, 10019, 10039
RCA	11447, 10047, 11454, 10000, 10030, 10178, 10679, 11247, 11917, 10090, 11948, 11147, 10019, 11907, 11922, 10135, 11958, 11047,11347, 10018, 11547, 10038, 11919, 10092, 11953
Realistic	10154, 10180, 10030, 10178, 10056, 10019, 10039, 10165, 10032
Rhapsody	10185
Rowa	10748, 10037, 10817
Runco	10017, 10030, 10603, 10497
Ruyi	10817
Saige	10817
Sampo	10154, 10093, 10030, 10178, 10171, 10032, 10052, 10474, 11755, 10039, 10700, 10036, 10092, 10650
Samsung	10154, 10156, 10060, 10812, 10702, 10030, 10178, 10019, 10056, 11060, 10092, 10474, 10774, 10032, 10817, 10090, 11903, 10264, 10766, 10814, 11150, 10179
Samsux	10039
Sanjian	10264
Sansui	10463, 11904, 11929, 11911
Sanyo	10154, 10156, 10180, 10145, 10376, 10474, 10036, 10893, 11907, 10159, 10280, 10424, 10799, 11154, 10157, 10264, 10381, 10798, 10088, 11150
Sanyuan	10093, 10817
Scimitsu	10019
Scotch	10178
Scott	10236, 10180, 10178, 10179, 10019
Sears	10047, 10054, 10154, 10156, 10178, 10171, 11926, 11904, 10056, 10159, 10179
Shancha	10817, 10264
Shanghai	10264, 11910, 10817
Shaofeng	10145, 10817
Sharp	10093, 10030, 10157, 10386, 10650, 10720, 10032, 10851, 10256, 10491, 10689, 10818, 10039, 10165, 10474, 10688, 10787, 10036, 11917
Sharper Image	11950
Shen Ying	10092, 10003, 10474, 10179
Shencai	10145, 10264
Sheng Chia	10093, 10236, 10179, 11150, 10474
Shenyang	10817, 10264
Shogun	10019
Signature	10016
Simpson	10187, 10186
Skygiant	10180
Skyworth	10748, 10264, 10037, 10817
Sony	11100, 10000, 10036, 10650, 11300, 10111, 11925, 10080, 10834, 11904
Soundesign	10180, 10178, 10179, 10186
Sowa	10156, 10051, 10060, 10178, 10036, 10092, 10474, 11150
Spectricon	10003
Squareview	10171
SSS	10180, 10019
Starlite	10180
Studio Experience	10843
Supre-Macy	10046
Supreme	10000
SVA	10748, 10587, 10865, 10872, 10768, 10871, 10870
Sylvania	10054, 10030, 10171, 11931, 10381, 11944, 10020, 10096
Symphonic	10180, 10171, 11913, 11904
Synco	10000, 10451, 10093, 10060, 10178, 10092, 10036, 10474
Tacico	10178, 10179, 11150, 10092, 10474
Tai Yi	11150
Taishan	10817, 10391
Tandy	10093
Tashiko	11150, 10650, 10092
Tatung	10054, 10154, 10156, 10051, 10060, 11150, 10474, 10036, 10055, 11756, 10003
Technics	10250, 10051
Technol Ace	10179
Techview	10847
Techwood	10051, 10003, 10056
Teco	10051, 10093, 10178, 10474, 10036, 10280, 10092, 10264, 10653
Teknika	10054, 10180, 10150, 10060, 10019, 10056, 10186, 10016, 10092, 10039, 10179
Telefunken	10702, 10056
Tera	10030, 10466, 10474
Thomas	11904
Tiane	10093, 10817
TMK	10178, 10177, 10056
TNCi	10017
Tobo	10748, 10264
Tongguang	10264
Toshiba	10154, 11256, 10156, 10060, 10145, 11918, 11945, 10381, 10832, 10036, 11704, 11936, 10264, 10650, 11150, 11656, 11935, 10161, 10509, 10845, 11356
Tosonic	10185
Totevision	10039
Trical	10157
Tuntex	10030, 10474, 10092
TVS	10463
Ultra	10391
Universal	10027
V Inc.	11756, 10885, 10864
Vector Research	10030
Victor	10250, 10053, 10160, 10650, 10376, 10036, 10653
Vidikron	10054
Vidtech	10178, 10019, 10036
Viewsonic	10857, 11755, 10885, 10864
Viking	10046
Wards	10054, 10030, 10178, 10020, 10080, 10165, 10866, 10019, 10027, 10056, 10111, 10179, 10016, 10021, 10096
Warumaia	10391
Waycon	10156
Westinghouse	10889
White Westinghouse	10463, 10186, 11909, 10623
Xiahua	10817, 10264
Xiangyang	10264
Xihu	10817, 10264
Xinghai	10264
Xinrisong	11910
Xuelian	11910
Yamaha	10030, 10838, 10019, 10833, 10769, 10839
Yapshe	10250
Yongbao	11910
Youlanasi	10817
Yousida	11910
Zenith	10017, 10463, 10178, 11911, 10016, 11909, 10092, 11904, 11929
Zonda	10003

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ABS	21972
Admiral	20048, 20209
Adventura	20000
Aiko	20278
Aiwa	20037, 20000, 20307, 20468, 20124, 20406, 20348, 20479
Akai	20041, 20061, 20175, 20106
Alienware	21972
America Action	20278
American High	20035
Amoisonic	20479
Anam	20162, 20037, 20240, 20278, 20226, 21037
Anam National	20162, 20226
Asha	20240
Audiovox	20037, 20278
Beaumark	20240
Bell & Howell	20104
Blaupunkt	20226
Broksonic	20184, 20121, 20209, 20002, 20348, 20295, 21479, 20479
Calix	20037
Canon	20035, 21174, 20167
Carver	20081
CCE	20072, 20278
Changhong	20048, 20081
Citizen	20037, 20278, 21278
Colt	20072
Craig	20037, 20047, 20240, 20072, 20271
Curtis Mathes	20060, 20035, 20162, 20041, 20760, 21035
Cybernex	20240
CyberPower	21972
Daewoo	20045, 20104, 20278, 20210, 20368, 21278, 20637, 20046, 20212, 20561
Dell	21972
Denon	20042
DirecTV	20739, 21989, 21954, 21949
Dish Network System	21943, 21946, 21945, 21944
Dishpro	21944, 21943
Durabrand	20039, 20038
Dynatech	20000
Echostar	21943, 21946, 21945, 21944
Electrohome	20037
Electrophonic	20037
Emerex	20032
Emerson	20035, 20037, 20184, 20240, 20045, 20000, 20121, 20043, 20209, 20002, 20278, 20295, 20036, 20637, 21593, 20561, 21479, 20068, 20208, 20479, 21278, 20061, 20212
Euro1	21962
Expressvu	21944
Fisher	20047, 20104, 20066, 20054
Fuji	20035, 20033
Fujitsu	20045, 20052, 20366
Funai	20000, 20593, 21593
Garrard	20000
Gateway	21972
GE	20060, 20035, 20240, 21060, 20202, 20760, 21035, 20807, 20226, 20761
General	20045, 20366, 20052
Go Video	20643, 20526, 20432
GOI	21944
GoldStar	20037, 20209, 20038, 20226, 20225, 21237
Gradiente	20000
Haojie	20240
Harley Davidson	20000
Harman/Kardon	20081, 20038
Harwood	20072, 20068
Hauppauge	21992
Headquarter	20046
Hewlett Packard	21972
HI-Q	20047
Hitachi	20037, 20000, 20042, 20041, 20166, 20105, 20089
Howard Computers	21972
HP	21972
HTS	21944
Hughes Network Systems	20042, 21949, 20739
Hyundai	21951
iBUYPOWER	21972
Jensen	20041
JVC	20045, 20067, 20041, 21945, 20008, 21944, 20384, 20366
KEC	20037, 20278
Kenwood	20067, 20041, 20038, 20384
KLH	20072
Kodak	20035, 20037
Kolin	20043, 20041
LG	20037, 20045, 20042, 20209, 20038, 22010, 21037, 20040
Lloyd's	20000, 20208
Logik	20072
LXI	20037
Magnasonic	21278, 20593
Magnavox	20035, 20039, 20081, 20000, 20593, 20563, 20110, 21781
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Marantz	20035, 20081, 21381
Marta	20037
Matsushita	20035, 20162, 20226, 21162, 20367, 20227
Media Center PC	21972
MEI	20035
Memorex	20035, 20162, 20037, 20048, 20039, 20047, 20240, 20000, 20104, 20209, 21237, 20046, 20479, 21162, 20348, 21048, 21262, 20307, 21037
MGA	20240, 20043, 20061
MGN Technology	20240
Microsoft	21972
Mind	21972
Minolta	20042, 20105
Mitsubishi	20067, 20043, 20041, 20061, 20807, 20173
Motorola	20035, 20048
MTC	20240, 20000
Multitech	20000, 20072
NAD	20058
National	20226
NEC	20035, 20037, 20048, 20104, 20067, 20041, 20038, 20040, 20008, 20370
Newave	20037
Nikko	20037
Nikon	20253, 20034
Noblex	20240
Northgate	21972
Olympus	20035, 20226, 21046
Onkyo	20222
Optimus	21062, 20162, 20037, 20048, 20104, 21048, 21262, 20593, 21162, 20058, 20432
Optonica	20062
Orion	20184, 20209, 20002, 20479, 20295, 21479
Panarex	21950
Panasonic	21062, 20035, 20162, 20077, 20226, 20616, 21162, 20225, 20367, 20227, 21035, 21262
Pansat	21950
Penney	20035, 20037, 20240, 20042, 20038, 21035, 20040, 20054, 21237
Pentax	20042, 20105
Philco	20035, 20000, 20226, 20479
Philips	20035, 20081, 20000, 20226, 20739, 21381, 20110, 20618, 21181, 20563, 21081, 21949, 20062
Pilot	20037
Pioneer	20042, 20067, 20058
Polk Audio	20081
Profitronic	20240
Proscan	20060, 20760, 21954, 20202, 21060, 20761
Protec	20072
Pulsar	20039
Qisheng	20060
Quarter	20046
Quartz	20046
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RadioShack	20000, 21037
Radix	20037
Randex	20037
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Ricoh	20253, 20034
Runco	20039
Sampo	20037, 20048
Samsung	20240, 20045, 20212, 20760, 20210, 20432, 21014
Samtron	20643
Sanky	20048, 20039
Sansui	20000, 20067, 20209, 20041, 20479, 20271, 21479
Sanyo	20047, 20240, 20104, 20046, 20159, 20369, 20368
Scott	20184, 20045, 20121, 20043, 20210, 20212
Sears	20035, 20037, 20047, 20000, 20042, 20104, 20046, 20066, 21237, 20054, 20105
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Sonic Blue	20614, 20616
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Sunpak	20253
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Tagar Systems	21972
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Teac	20000, 20041
Technics	20035, 20162
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Teknika	20035, 20037, 20000, 20052
Thomas	20000
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Totevision	20037, 20240
Touch	21972
UltimateTV	21989
Unitech	20240
Vector	20045
Vector Research	20038, 20040
Victor	20067, 20041, 20008, 20384
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Villain	20000
Wards	20060, 20035, 20048, 20047, 20081, 20240, 20000, 20042, 20072, 20062, 20212, 20760
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XR-1000	20035, 20000, 20072
Yamaha	20041, 20038
Zenith	20039, 20033, 20000, 20209, 20034, 20479, 21479, 21139, 20637
ZT Group	21972

Setup Codes for Video Accessories

ABS	01272
Alienware	01272
CyberPower	01272
Gateway	01272
Hewlett Packard	01272, 01267
Howard Computers	01272
HP	01272
iBUYPOWER	01272
InterVideo	01393
Jensen	01165
JVC	01384
Keyspan	01344
KWorld	01403
LG	01415
Linksys	01365
Macro Image Technology	01383
Media Center PC	01272
Microsoft	01272
Mind	01272
Motorola	01363
MyHD	01383
Northgate	01272
Panasonic	01120
Pinnacle Systems	01268
Pioneer	01010
Princeton	00113, 00295
Rabbit	00081
Roku	01486
Samsung	01190, 01490
Sensory Science	01126
Sharp	01010
SMC	01456
Sony	01272, 01324, 01364
Streamzap	01309
Systemax	01272
Tagar Systems	01272
TeleCaption	00171
Toshiba	01272
Touch	01272
Viewsonic	01272, 01329
ZT Group	01272

Russound

A-K3

Amplified Keypad with Multisource Capability for A-BUS® System

Installation Manual

A-K3 Overview

The Russound A-K3 is an in-wall amplified keypad used with A-BUS hubs and controllers in a distributed audio system. It can be used with both single- and multi-source A-BUS hubs/controllers. The A-K3 provides source selection and control with backlit push buttons, plus an IR window to receive remote control signals.

The volume up/down buttons control the speakers in the room that are connected to the A-K3. Typical installations place one A-K3 in each room of the A-BUS system. The Line Out connection on the A-K3 can be used to feed a separate powered subwoofer or to connect an external amplifier for more power to a larger listening area.

A-K3 Key Features

- Power On/Off button (acts as source select with multi-source hubs/controllers)
- Volume trims for L/R balance and maximum level settings
- Built-in IR receiver with IR confirmation LED
- IR control of settings and sources via A-LRC2 optional remote
- Line Out connection for external amp or powered subwoofer

A-K3 Specifications

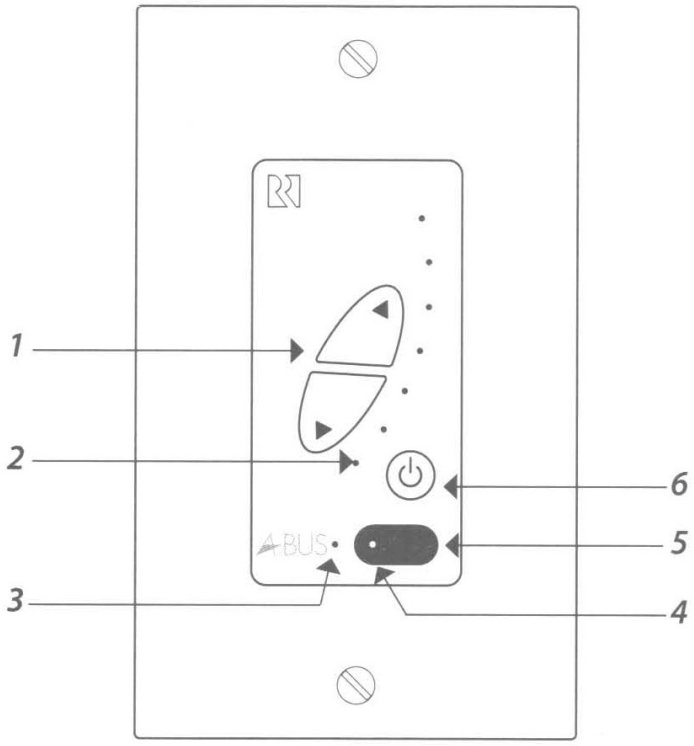
Output Impedance:	8 ohms/channel (1 pair speakers)
Input Impedance:	10 kohms
Power Requirements:	+24VDC 660mA peak
CAT-5 Connections:	RJ45
Dimensions (in-wall):	1.75"W x 2.875"H x 1.75"D (45x73x45mm)
Weight:	5.5oz. (160g)

A-BUS®

A-BUS is a registered trademark of LeisureTech Electronics Pty Ltd Australia

This product may be covered by one or more of the following patents: US #7,181,023, #6,389,139; EP #1004222, AU #739808, NZ #502982, Mexico #241196, Canada #CA2301062

A-K3 Keypad Front Panel Operation



1 *VOLUME UP/DOWN* - Raises/lowers room volume

2 *VOLUME LEVEL* - Volume level indicator LEDs light up from bottom to top to indicate volume level. Also indicates source selected (1-6) when in "multi-source" mode.

3 *STATUS LED* - Green LED lights to show Status "on" and turns off when Status is "off"

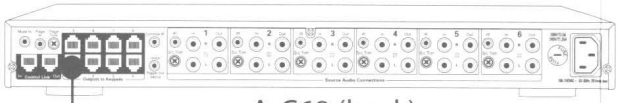
4 *IR CONFIRMATION LED* - Red LED blinks to confirm IR signal reception.

5 *IR RECEIVER* - Receives IR signals from a remote control. Source components attached to IR emitters in an A-BUS system can be controlled with their own remote controls or A-LRC2 learning remote aimed at the A-K3.

6 *POWER* - Turns zone ON when pressed once. (In multi-source mode, when ON, press and hold will turn zone OFF. When OFF, press and hold will turn OFF all zones.) Status LED remains lit when keypad/zone is OFF if any other zone in system is ON.

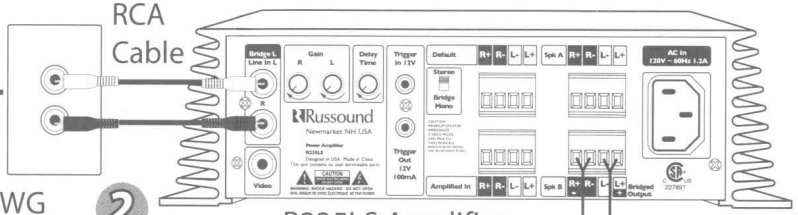
6 *SOURCE SELECT* (Multisource controller) - When the keypad is set in "Multisource" mode, the power button is used to toggle through and select a source. Tap the power button to toggle between 1 and 6 multiple sources (once power is on). The top LEDs of the volume indicator show (from top to bottom) the source that is selected (top LED is source 1, next LED down is source 2, etc).

CONNECTION DIAGRAM FOR A-K3. REFER TO THE NUMBERED INSTRUCTIONS ON REVERSE. DIAGRAMS ARE NOT TO SCALE.



A-C68 (back)

RCA Cable

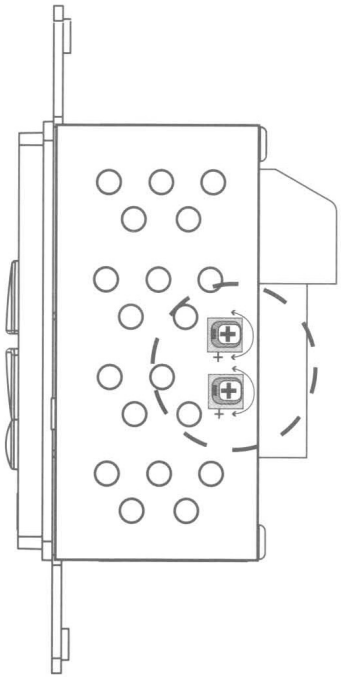


22AWG 2 pair twisted shielded cable

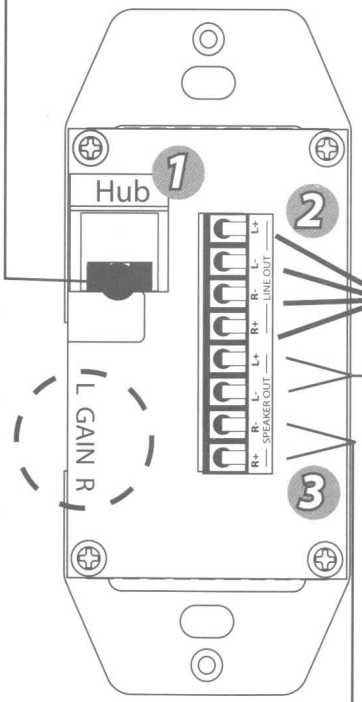
R235LS Amplifier

Speakers

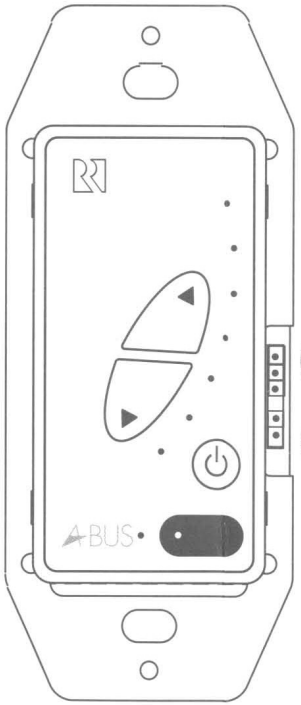
CAT-5 cable



A-K3 (side)

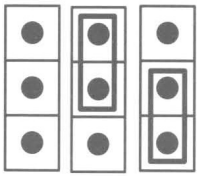


A-K3 (back)

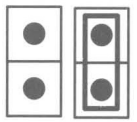


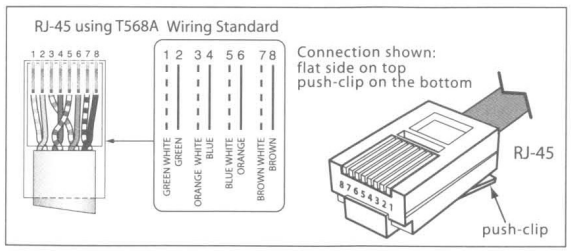
A-K3 (front)

Source jumper

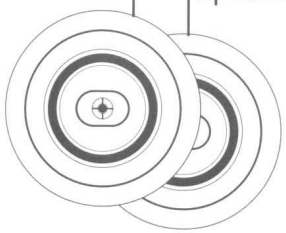


Status jumper

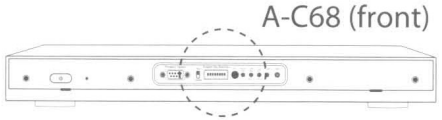




Speaker cable

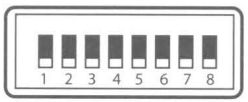


8-ohm speakers



A-C68 (front)

Keypad Dip Switches



Keypad dip switch on A-C68 set in DOWN position

CONNECTION INSTRUCTIONS FOR A-K3. REFER TO NUMBERED DIAGRAM ON REVERSE.

1 RJ45 Connector for CAT-5 Connection

The RJ45 input provides a connection for the CAT-5 cable from an A-BUS hub/controller to receive an audio signal, passthrough IR and power over the CAT-5 cable. Use the T568A wiring standard. The recommended maximum length for standard CAT-5 cable is 150 feet.

Before connecting the A-K3, disconnect the power supply from the A-BUS hub/controller and disconnect the Status power supply if used.

2 Line Out Connector for External Amplification

The Line Out provides a variable line-level audio output connection for an external amplifier or powered subwoofer. An amplifier provides more power to a large listening area, and a powered subwoofer adds extended bass response.

Use 22AWG four conductor, two-pair twisted shielded cable to connect to the Left positive (+) and negative (-), and Right positive (+) and negative (-) screw down terminals on the back of the A-K3.

Terminate the four conductor two-twisted pair shielded cable to the rear solder lugs of a wall plate fitted with two RCA jacks on its front. Terminate the shield at the Right negative (-) or Left negative (-) ring of the solder lugs. RCA cables can be used to connect the amp or subwoofer to the wall place for audio signal feed.

3 Speaker Output Connector for Speakers

The Speaker Output connections provide speaker-level audio output for a pair of 8-ohm speakers. The screw-down terminals accepts up to 16 gauge speaker wire.

4 Status Jumper for Status LED Enable/Disable

The Status option provides visual indication when source equipment is powered on. With this option enabled, the status LED shows green on the keypad when the system is on (keypad can be on or off).

To enable the Status LED, locate the status pins on the right side of the keypad under the faceplate. Place the status jumper over the bottom two pins to enable the status LED.

Note: Amplified keypads are shipped with the Status LED option disabled (default).

Status function and operation:

When the source is powered on, the Status circuit is powered by 12VDC and turns the keypad's status LED to green. This indicates to the user that the source is on and ready to receive remote control commands.

When the source is powered off (remotely or manually), it shuts off the 12VDC Status power connected to it, and turns off all the interfaces connected to the controller (green LED off).

5 Source Mode Jumper for Single/Multisource

The single/multisource jumpers set the A-K3 to be used with either single- or multi-source A-BUS hubs/controllers. The jumpers and pins are located under the faceplate on the right side of the keypad (facing front).

The pins are jumpered to select between 1, 4 and 6 sources. 1 source = no jumper; 4 sources = top two pins jumpered; 6 sources = bottom two pins jumpered.

6 Gain Control for Maximum Levels

The two rotary trim potentiometers on the side of the A-K3 provide adjustment of audio gain. These are used to set the maximum allowable volume for the left and right speakers connected to the A-K3.

7 Keypad Connection to A-C68 Controller

Each keypad connects to a Keypad Output port on the back of the A-C68 controller. Connections are made using CAT-5 cable with an RJ45 connector.

The Keypad Ports are located on the back of the A-C68 on the left. Connections at the Keypad Ports are made with RJ45 connectors using T568A CAT-5 wire configuration. CAT-5 cable length should be no longer than 150 feet from controller to keypad.

If used in a system with A-K5L keypads, when connecting A-K3 keypads to the A-C68, the keypad dip switches on the controller's front programming center must be set in the UP position. Dip switches correspond to numbered keypad ports.

If used in a A-C68 system with no A-K5L keypads, set the keypad dip switches in the UP position.

For a clean installation when wiring from a Keypad Port, use an RJ45 CAT-5 patch cable to connect from the keypad port to an RJ-45 wall plate (optional). Using the same RJ45 T568A CAT-5 wiring configuration, use CAT-5 from the RJ45 wall plate to the keypad.

8 Installation

Check all connections and test the system's operation before installing the A-K3 into the wall. Using the included hardware, install the A-K3 into a standard UL/CSA single-gang electrical J-box.

Conforms to UL 6500 Certified to CAN/CSA

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Safety Instructions

1. Read Instructions - All the safety and operating instructions should be read before the appliance is operated.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the appliance in the operating instructions should be adhered to.
4. Follow Instructions - Follow all operating and user instructions.
5. Water and Moisture - The appliance should not be used near water; for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.
6. Wall or Ceiling Mounting - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
7. Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
8. Power Sources - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
9. Grounding or Polarization - Precaution should be taken so that the grounding or polarization means of an appliance is not defeated.
10. Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through the openings.
11. Damage Requiring Service - The appliance should be serviced by qualified service personnel when:
    The power supply cord or the plug has been damaged;
    Objects have fallen, liquid has been spilled into the appliance;
    The appliance has been exposed to rain;
    The appliance does not appear to operate normally; or
    The appliance has been dropped or the enclosure is damaged.
12. Servicing - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.
13. Care – From time to time you should wipe off the front panel with a soft dry cloth.

Limited Warranty

The Russound A-K3 is fully guaranteed for two (2) years from the date of purchase against all defects in materials and workmanship. During this period Russound will replace any defective parts and correct any defect in workmanship without charge for either parts or labor. For this warranty to apply, the unit must be installed and used according to its written instructions. If service is necessary, it must be performed by Russound. Russound assumes no responsibility for defects resulting from abuse or servicing performed by an agency or person not specifically authorized in writing by Russound. Damage to or destruction of components due to improper use voids the warranty. In these cases the repair will be made at the owner's expense. Accidental damage and shipping damage are not considered defects under the terms of the warranty. To return for repairs, the unit must be shipped to Russound at the owner's expense, along with a Return Authorization number and documentation explaining the nature of the service required. Any product returned without prior written permission will be returned to sender. Russound sells products only through authorized Dealers and Distributors to ensure that customers obtain proper support and service. Any Russound product purchased from an unauthorized dealer or other source, including retailers, mail order sellers and online sellers will not be honored or serviced under existing Russound warranty policy. Any sale of products by an unauthorized source or other manner not authorized by Russound shall void the warranty on the applicable product.

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